CLAIM

I claim:

1) An indexed database alarm and monitor, for assigning each unit of a multiple unit system, a labeled index of pre-selected designations and or descriptions of use by said voice-playback and reporting, by said voice-playback first detecting units designation and or description of use by each unit in the system, consisting of the following components, a fire sensor, an alarm IC with piezo horn output and detection I/O, a multiple position encoder, a 8-bit dip switch, a radio frequency decoder transmitter and receiver encoder, an antenna switch and an antenna, a voice-playback device with speaker, and a microcontroller all housed within one unit, a complete system being comprised of a plurality of said units, equal to the number of positions, on the multiple position encoder; said multiple position encoder has labeled positions and outputs a different 4-bit binary coded decimal at each position to be used as a database index, said voice-playback device contains indexed pre-recorded voice segments, as a database; said labeled positions, relate to the indexed voice segments, and the multiple position encoders, output is used as the index into the voice segment database, being mapped one-to-one into the 8-bit starting address of a voice segment; said radio frequency decoder transmitter decodes and transmits a 12-bit signal, consisting of an 8-bit system ID from the 8-bit dip switch, and the 4-bit index from the multiple position encoder, the radio frequency receiver encoder validates the 8-bit system ID and outputs the 4-bit index; said antenna switch and antenna default to the radio frequency receiver encoder unless fire sensor detects smoke, said antenna switch is enabled and said antenna is applied to the decoder transmitter;

Whereas said microcontroller is used as a state machine and is interrupt driven with 3-states initialization, monitor and interrupt, only two interrupts are allowed interrupt 1-local, said fire sensor detects smoke, and interrupt 2-remote, said receiver encoder validates transmission of matching said 8-bit system ID.